

Application No. 10/623,370  
SD-7250.1

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**REMARKS**

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**1. Claim Status:**

- Claims 1-24, 26, 27 and 29-38 are pending.
- Claims 1-11, 17-21, 26, 27, 29-31, 33-35, 37 and 38 are rejected.
- Claims 12-16, 22-25, 28, 32-33 and 36 are cancelled.

**Claim Rejections – 35 USC §103(a)****2. Claims 1-10, 17-21, 27-31, 33, 35 and 37**

The Office rejected claims 1-10, 17-21, 27-31, 33, 35 and 37 under 35 USC §103(a) as being unpatentable over Tadros et al. (WO 01/02192 A1) in view of Nakagawa et al (3,901,819). Applicants respectfully traverse because Tadros WO '192 is not a proper reference.

Tadros '192 was published 01/10/2002. The instant application claims the benefit of US Provisional Application Serial No. 60/397,424, filed 07/19/2002 (see specification, p. 1, lines 9-11). Attachment A is a copy of the '424 provisional as filed. Attachment B is a copy of the Filing Receipt for the regular application 10/623,370, which confirms that the instant application ('370) claims the benefit of said provisional.

In the advisory action mailed 07/11/2006, the Office said that applicant was not entitled to the filing date of the provisional application because the provisional did not disclose a "sorbent additive". Applicants respectfully traverse.

In the Provisional Application 60/397,424, filed 07/19/2002, on the second page (the page that starts with the word "Description" at the top), the last paragraph states:

*"This TA presents a convenient method to formulate DF-200 for practical use. It uses a highly sorbent material (sorbitol - a sugar alcohol) to 'dry out' the liquid peroxide activator (propylene glycol diacetate or glycerol diacetate). The*

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*activator becomes a free flowing powder which is more convenient to handle in the field." [emphasis added]*

Applicants respectfully submit that the words "highly sorbent material" used to "dry out the liquid peroxide activator" does, in fact, disclose the generic concept of using a sorbent additive in the manner recited in the regular application ('370). Specifically, the '370 specification, at page 51, lines 7-20, teaches the following:

"DF-200 With Sorbent Material Added to "Dry Out" Liquid Ingredients"

According to the present invention, a water-soluble, highly adsorbent additive is used to "dry out" one or more liquid ingredients of the family of DF-200 decontamination formulations, such as the liquid bleaching activator (i.e., peroxide activator) that is used for the "Part C" component of a multi-part, kit configuration (e.g., 3-part or 4-part configuration). A goal of "drying out" the liquid bleaching activator(s) is to produce a dry, free-flowing powder that can be placed in protective packaging with a desiccant, have an extended shelf life, be more convenient to handle and mix in the field (as compared to handling and mixing a liquid), and not leave a residue. In this way, the sorbent material acts as a drying agent.

The process of "drying out" the liquid bleaching activator (e.g., propylene glycol diacetate or glycerol diacetate) is not really an evaporation process as it is commonly understood. Rather, the present invention uses a sorbent additive that absorbs and/or adsorbs (i.e., at room temperature) substantially all of the liquid activator to produce a powdered, free-flowing product that is easier to handle." [emphasis added]

Applicants use the words "sorbent additive" and "sorbent material" interchangeably throughout the '370 application.

In both the provisional application, and the regular application, applicants have consistently followed the style of placing an example of a suitable material in-between parentheses ( ), to indicate an example. Specifically, in the provisional, the text says

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"highly sorbent material (sorbitol - a sugar alcohol)". This means that sorbitol is an specific example of a sorbent material, with "sugar alcohol" being broader class of polyols. There is nothing in the disclosure of the Provisional that explicitly limits the sorbent material to only being sorbitol.

In summary, applicants submit that the '424 Provisional application fully supports the teaching of a "sorbent additive", as it is used and claimed in the '370 regular application.

Therefore, because Tadros '192 was published less than 1 year prior to applicant's effective filing date of 07/19/2002, Tadros '192 is not a proper "102(b) type" reference for use in 103(a) rejections. Hence, the rejections of claims 1-10, 17-21, 27-31, 33, 35 and 37 should be withdrawn.

Claim 33 is cancelled.

Since the Office has made no other rejections of claims 1-10, 21, 35 or 37, then these claims are now in condition for allowance.

However, in order to expedite prosecution, applicants have voluntarily rewritten claim 21 in independent form, including all of the limitations of the base claim and any intervening claims.

### 3. Claims 11, 26, 34, and 38

The Office rejected claims 11, 26, 34, and 38 under 35 USC §103(a) as being unpatentable over Tadros et al. WO 02/02192, all said patents individually in view of Nakagawa et al (3,901,819) and further in view of Huth et al. (6,448,062).

As presented above, Tadros '192 is not a proper reference. Hence, the rejections of claims 11, 26, 34, and 38 under 35 USC §103(a) should be withdrawn.

Since the Office has made no other rejections of claims 11, 26, 34, or 38, then these claims are now in condition for allowance.

However, in order to expedite prosecution, applicants have voluntarily rewritten claims 26 and 34 in independent form, including all of the limitations of the base claim and any intervening claims.

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4. Claims 27, 29, 31, and 33

The Office rejected claims 27, 29, 31, and 33 under 35 USC §103(a) as being obvious over by Krezanoski (3,852,210) in view of Nakagawa et al (3,901,819).

In response, applicants amended claim 27 by limiting the sorbent additive to be selected from the group consisting of sodium sulfate, calcium hypochlorite, calcium chloride, potassium bromide, potassium carbonate, zeolites, precipitated silicas, percarbonates, dendritic salt (sea salt), potassium bromide, urea, and polyols, and combinations thereof.

None of these sorbent additives are taught by Krezanoski or Nakagawa. Hence, a *prima facie* case of obviousness has not been made, and the rejection of claim 27, as currently amended, is improper.

Claims 29 and 31 depend from claim 27, and are now in condition for allowance.

Applicants wish to point out a pair of conflicting statements made by the Office in the instant Office Action. On page 5, the Office states: "*Krezanoski differs from applicant's claimed invention in that there is no direct disclosure to the further addition of a bleaching activator selected from the group consisting of O-acetyl, N-acetyl, and nitrile group bleaching activators.*" However, on page 6, the Office states just the opposite: "...*Is the actual disclosure of Krasanoski's Example wherein the Acetanilid component reads on applicant's N-acetyl type bleach activator.*" This is confusing.

In either case, nevertheless, applicants believe that **Acetanilid** is not a bleach activator...rather, it is a peroxide stabilizer. In order to be a bleach activator, the nitrogen must be directly bound to 3 carbon atoms (i.e., not an H atom, as in Acetanilid).

5. Claims 17-20, 27, 29-31 and 33

The Office rejected claims 17-20, 27, 29-31 and 33 under 35 USC §103(a) as being unpatentable over Hardy 4,536,314 optionally in view of Nakagawa 3,901,819 and/or Hardy 4,853,143. The Office notes that Hardy lists sodium citrate as an ingredient in example 24.

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In response, applicants have deleted sodium citrate from the list of sorbent additives in claim 17. Nowhere does Hardy ('143) or Hardy ('314) or Nakagawa teach the use of dendritic salt, calcium hypochlorite, calcium chloride, polyols, urea, or potassium bromide as a sorbent additive, as recited in claim 17, as currently amended.

Since not all of the elements of amended claim 17 are taught by these references, a *prima facie* case of obviousness cannot be supported. Accordingly, the rejection of claim 17, as currently amended, has been overcome.

Claims 18-20 depend from claim 17. Since claim 17 is now in condition for allowance, it follows that dependent claims 18-20 are also now in condition for allowance.

Applicants also deleted sodium citrate from the list of sorbent additives in claim 27. Nowhere does Hardy ('143) or Hardy ('314) or Nakagawa teach the use of sodium sulfate, calcium hypochlorite, calcium chloride, potassium bromide, potassium carbonate, zeolites, precipitated silicas, percarbonates, dendritic salt (sea salt), potassium bromide, urea, and polyols, and combinations thereof as a sorbent additive, as recited in claim 27, as currently amended.

Since not all of the elements of amended claim 27 are taught by these references, a *prima facie* case of obviousness cannot be supported. Accordingly, the rejection of claim 27, as currently amended, has been overcome.

Claims 29-31 and 33 depend from claim 27. Since claim 27 is now in condition for allowance, it follows that dependent claims 29-31 and 33 are also now in condition for allowance.

#### 6. New claims 39-42

New claims 39-42 have been added, and are fully supported by the specification. In particular, the claim limitations for the element "sorbent additive" are taken directly from the '340 provisional application.

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## CONCLUSION

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Applicants have responded to each and every objection and rejection, and urge that claims 1-11, 17-21, 26-27, 29-31, 34-35, 37-38, and new claims 39-42 as presented and amended are now in condition for allowance. Applicants request expeditious processing to issuance.

The Office is authorized to charge Deposit Account # 19-0131 for any necessary fees regarding this response.

Applicants wish to point out that a fee of \$600 (for 3 additional independent claims: 21, 26, and 34) was already charged to this deposit account on July 3, based on the amendment after final that was filed June 26, 2006. Therefore, only an additional \$ 200 should be charged for new independent claim 39, and \$ 150 for the three new dependent claims 40-42.

Respectfully submitted,

Robert D. Watson

Robert D. Watson  
Reg. No. 45,604

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Albuquerque, NM 87185-0161  
Customer No. 20567

Certificate of Transmission under 37 CFR 1.10

I hereby certify that this correspondence was transmitted via facsimile to the U.S. Patent and Trademark Office at phone number 571-273-8300 on June 26, 2006.

Robert D. Watson

Robert D. Watson

JUL-25-06 04:45PM FROM-Sandia Labs

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T-927 P.020/029 F-160

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SD-7250.1*

**APPENDIX A**

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## UCI-Patent Caution

## DISCLOSURE OF TECHNICAL ADVANCE

## How to File a Technical Advance

- Attach to this form a description of the technical advance, including what it does, how it works, and what makes it different from existing technology. Have at least one Originator, and one independent witness (non-Originator) sign and date each page added to this cover sheet.
- Attach copies of laboratory notebook pages, test data, photographs, and pertinent references (yours and others). Color copies are preferred.
- This page must be signed by your organization's Authorized Derivative Classifier, a witness, and yourself.
- Send the Original and two copies to Patents, Org. 11500, MS 0181.

Descriptive Title: Powdered Additive for DF-200

TA Preparer: Mark D. Tucker

Date: 7/18/2002

TA Originators (Those associated with the development of the technology being reported)

Full Names (add name of Company or University if not a Sandia Employee)	SS No. (SNL only)	MS	Org.	Phone
Mark D. Tucker	322-58-8508	0734	6245	505-844-7264
Bob Comstock, Envirofoam Technologies, Inc.				256-319-0137
James W. Morand, Envirofoam Technologies, Inc.				256-319-0137

Is this Sandia work?  Yes  No. If Yes, list source of TA Funding: Project: 37858 Task: 01Is the TA RELATED to an external collaboration?  CRADA  WFO  NFE  Informal  None

If boxes checked, give: Name of Outside Partner Envirofoam ID number for agreement \_\_\_\_\_

Is this work LDRD funded?  Yes  No

## Project History:

- Has the material in this TA been disclosed to non-Sandians? (journal, SAND report, etc.).....  Yes  No
- Are you planning to disclose the material in this TA?.....  Yes  No
- Is the invention in use for its intended application?.....  Yes  No
- Have you offered to let non-Sandians use the invention?.....  Yes  No
- Is the material in this TA recorded in a lab notebook or other permanent record?.....  Yes  No

Please provide details and DATES for any questions marked "Yes".

Question 1: Material has been disclosed to Envirofoam Technologies, Inc., a joint developer; Question 2: Material has been disclosed to Envirofoam Technologies, Inc. a joint developer; Question 4: Envirofoam Technologies, Inc.; Question 5: SNL notebook 082001MDT, Page 66 and Envirofoam Technologies, Inc. meeting notes

Classification: Title UTotal Disclosure UDetailed Description of TA UAuthorized Derivative Classifier: Larry D Bustard

Org: 6245

Date: 7/16/2002

SIGNATURES TA Preparer: Mark D. Tucker

Org.: 6245

Date: 7/18/2002

Witness (non-Originator): Larry D Bustard

Org.: 6245

Date: 7/18/2002

(Printed Name) Larry D Bustard

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SD: 7250

S: \_\_\_\_\_

Assigned to: \_\_\_\_\_

B&amp;R Code: \_\_\_\_\_

**Description**

Sandia National Laboratories has recently developed DF-200, an enhanced decontamination formulation for the neutralization of chemical and biological warfare agents and biological pathogens, which is described in Technical Advance SD-6989 (Tucker, MD, 2001, "DF-200 - An Enhanced Formulation for the Decontamination and Mitigation of CBW Agents and Biological Pathogens", Sandia National Laboratories, SD-6989/S-97,643). Two formulations associated with DF-200 are summarized below:

**DF-200HF (Enhanced Formulation for High Foam Applications):**

2.00% Variquat 80MC (cationic surfactant)  
1.00% Adogen 477 (cationic hydrotrope)  
0.40% 1-Dodecanol (fatty alcohol)  
0.05-0.10% Jaguar 8000 (cationic polymer)  
0.50% Di(propylene glycol) Methyl Ether (solvent)  
2.00-8.00% Bicarbonate salt (buffer and peroxide activator)  
1.00-4.00% Hydrogen Peroxide (oxidant)  
1.00-4.00% Propylene Glycol Diacetate or Glycerol Diacetate (peroxide activator)  
80.00-92.05% Water

Note: The formulation must be adjusted to a pH value between 9.6 and 9.85 and is effective for decontamination of all agents tested.

**DF-200NF (Enhanced Formulation for No Foam Applications):**

2.50% Benzalkonium Chloride  
1.00-8.00% Propylene Glycol Diacetate or Glycerol Diacetate  
1.00%-16.00% Hydrogen Peroxide  
2.00%-8.00% Potassium Bicarbonate  
65.50%-93.50% Water

Note: The formulation must be adjusted to a pH value between 9.6 and 9.85 and is effective for decontamination of all agents tested.

The term 'High Foam' refers to the ability of a formulation to form a highly stable and persistent foam whereas a 'No Foam' formulation does not include foaming constituents that may be used for specific applications such as for the kill of biological organisms, batch processing (such as in chemical agent demilitarization neutralization processes), or spray applications. DF-200 utilizes a water-soluble peroxide activator (propylene glycol diacetate or glycerol diacetate).

The primary purpose for the delivery of DF-200 as a foam is to enable it to adhere to vertical surfaces and the underside of horizontal surfaces for a sufficient period of time to allow neutralization reactions to occur with chemical agents and biological pathogens (the required contact time is anywhere from 2 minutes to 45 minutes depending on the agent to be neutralized).

This TA presents a convenient method to formulate DF-200 for practical use. It uses a highly sorbent material (sorbitol - a sugar alcohol) to 'dry out' the liquid peroxide activator (propylene glycol diacetate or glycerol diacetate). The activator becomes a free flowing powder which is more convenient to handle in the field. Sorbitol is chemically unreactive in DF-200. In addition, it does not destroy the foaming properties of DF-200. The two powders (urea hydrogen peroxide and the sorbitol/activator/polyethylene glycol blend) may be added to the liquid portion of DF-200 together and treated as if they were one powder (although they must be stored separately).

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**DF-200HF with Solid Additives (no additional water required)****DF-200HF Part A (Liquid Foam Component):**

20.0 g Viququat 80MC  
 10.0 g Adogen 477  
 4.0 g 1-Decanol  
 8.0 g Diethylene Glycol Monobutyl Ether  
 5.0 g Isobutanol  
 50.0 g Potassium Bicarbonate  
 16.0 g Potassium Hydroxide (the pH of Part A should be approximately 10.4)  
 933.0 g Water

**DF-200HF Part B (Solid Oxidant Component):**

97.0 g Urea-Hydrogen Peroxide

**DF-200HF Part C (Liquid Peroxide Activator):**

20.0 g Propylene-Glycol Diacetate or Glycerol Diacetate  
 40.0 g Sorbitol (Sorbitan Fines)  
 20.0 g Polyethylene-Glycol 8000 (Carbowax 8000)

Note: This formulation as described above will produce 1 liter of foam solution. The pH of the final formulation should be between 9.6 and 9.85. To prepare this formulation, use the following procedure: Mix Part B and Part C into Part A. After dissolution, use within 8 hours.

The performance of DF-200HF in the configuration shown above for neutralization of chemical agent simulants is given in Figure 1 below:

Simulant	% Decontaminated		
	1 Minute	15 Minutes	60 Minutes
Mustard (HD)	61	91	Not Detected
VX	28	92	>99

Figure 1: Reaction rates in kinetic testing for the DF-200HF.

Tests against the anthrax spore simulant (*Bacillus globigii* spores) demonstrated 99.9999% (7-log) kill after a 60 minute exposure to DF-200HF.

One method for mixing Part C is also presented. This method is described below:

1. Place the sorbitol powder in a mixing vessel.
2. While mixing, slowly add the liquid peroxide activator (propylene glycol diacetate or glycerol diacetate). Mix until a fine powder (no lumps) is achieved.
3. While continuing to mix, slowly add the polyethylene glycol 8000.
4. Let dry for approximately 24 hours. Re-mix to break up any lumps that have formed.

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Project No. 37850

Book No. D52001 MDT TITLE DE-200 Packaging

From Page No. \_\_\_\_\_

Drying (solidifying) propylene glycol diacetate

use PVP (polyvinylpyrrolidone) as a

binder - use PEG to increase tablet

strength

Use this to bind organic solution

Vaseline

glycerine

propylene glycol

Propylene glycol diacetate

adipic acid

20 g pgd + 40 g bicarb

+ 30 g Stearyl

+ 10 g Vaseline

+ 5 g PEG, not freezing

good powder - slightly sticky

To Page No. \_\_\_\_\_

Witnessed &amp; Understood by me,

Date . . . Invented by M. G.

Date . . .

Book No. 2002M11

## DE-200 Dried Activator

•୪୬୯ ମୋ--

-1-2      2 g Pgda  
0.25 g vanillin  
0.5 g Sorbitol  
3 g citric acid  
nearly ffP

1-2-1	2 g PDA 0.25 agar-plate 5 g Na citrate 2.5 g Na Bicarbonate (pH -) 3 g sorbitol	{ nearly ff. good ff after 2 days.
-------	---	--

Test 21-3  
 25 g water  
 5.1 g 21-1-1  
 3.3 g 21-2-1

test 21-4  
20g water  
5ml 2<sup>0</sup>-1-1  
20-3-2 (3-35) ] pH ~~9.3~~ 9.3  
B. layer forms

1.5 20g water + 5.1g 20-1-1  
bilayer forms

To Page Next

Informed & Understood by me,

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Date \_\_\_\_\_

• 2000-2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICEPROVISIONAL APPLICATION (35 U.S.C. § 1.11)

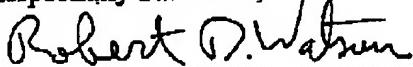
Assistant Commissioner for Patents  
Box: Provisional Patent Application  
Washington, DC 20231.

July 18, 2002

Sir:

In accordance with 35 U.S.C. 111(b), Applicants respectfully submit the enclosed invention description as a Provisional Patent Application: Powdered Additive for DF-200, by Mark D. Tucker, et al.

Respectfully Submitted,



Robert D. Watson, Ph.D.

Reg. No. 45,604

Patent Agent

Sandia National Laboratories

Patent & Licensing Center

Org. 11000, Mail Stop 0161

Albuquerque, NM 87185-0161

Telephone: (505) 845-3139  
Facsimile: (505) 844-2829

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this New Provisional Application Transmittal and the documents referred to as enclosed therein are being deposited with the U. S. Postal Service on the date indicated below, in an envelope as "Express Mail" with Mailing Label Number \_\_\_\_\_ addressed to: Assistant Commissioner for Patents, Box: Provisional Patent Application, Washington, DC 20231.,

July 19, 2002  
Date

Viola Campos  
Viola Campos

Page 1 of 1

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**PROVISIONAL APPLICATION FOR PATENT COVER SHEET**

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53 (e).

INVENTORS		
Given Name (first & middle)	Surname or Family Name	Residence (City and State or Country)
Mark D.	Tucker	Albuquerque, New Mexico, USA
Bob	Comstock	Gardendale, Alabama, USA
James W.	Morland	Scottsdale, Arizona, USA

TITLE OF THE INVENTION (280 characters max)	
Powdered Additive for DF-200	

CORRESPONDENCE ADDRESS	
Direct all correspondence to:	 <b>020567</b>
<input checked="" type="checkbox"/> Customer Number: 020567 which is:  Sandia National Laboratories Patent and Licensing Center 11500 Mail Stop 0161 Albuquerque, NM 87185-0161	

ENCLOSED APPLICATION PARTS (CHECK ALL THAT APPLY)	
<input checked="" type="checkbox"/> Specification	Number of Pages: 4
<input checked="" type="checkbox"/> Drawing(s)	Number of Sheets: 0

METHOD OF PAYMENT OF FEES FOR THIS PROVISIONAL APPLICATION	
<input checked="" type="checkbox"/>	The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account No: 19-0131
Filing Fee Amount: \$160	

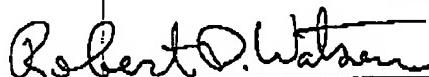
<input checked="" type="checkbox"/>	This invention was made under Contract DE-AC04-94AL85000 with the United States Department of Energy
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Respectfully submitted:

Date July 18, 2002

Docket No: SD-7250

Signature:



Robert D. Watson, Reg. No. 45,604

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

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דוח אמצעי איסוף נתונים

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T-927 P.028/029 F-160

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**APPENDIX B**

APPENDIX B

SD-7250.1



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
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[www.uspto.gov](http://www.uspto.gov)

APPL NO.	FILING OR 371 (C) DATE	ART UNIT	FIL FEE RECD	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/623,370	07/18/2003	1614	1158	SD-7250	4	38	4

CONFIRMATION NO. 3175

020567  
 SANDIA CORPORATION  
 P O BOX 5800  
 MS-0161  
 ALBUQUERQUE, NM 87185-0161

## FILING RECEIPT



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Date Mailed: 10/22/2003

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Mark D. Tucker, Albuquerque, NM;  
 Robert H. Comstock, Gardendale, AL;

## Domestic Priority data as claimed by applicant

This application is a CIP of 10/251,669 09/20/2002  
 and claims benefit of 60/397,424 07/19/2002

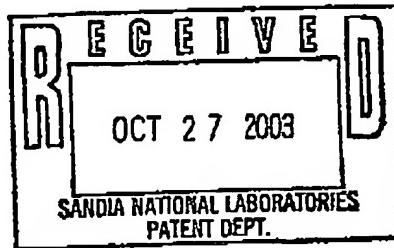
## Foreign Applications

If Required, Foreign Filing License Granted: 10/21/2003

Projected Publication Date: 01/29/2004

Non-Publication Request: No

Early Publication Request: No



## Title

Decontamination formulation with sorbent additive

Copy sent to DOE 10/27/03